

CLAIMS

1. A catalyst for a water gas shift reaction characterized in that at least platinum is supported on a metal oxide carrier.

2. The catalyst for the water gas shift reaction according to claim 1 characterized in that the metal oxide carrier is at least one selected from the group consisting of zirconia, alumina, titania, silica, silica-magnesia, zeolite, magnesia, niobium oxide, zinc oxide and chromium oxide.

3. The catalyst for the water gas shift reaction according to claim 1 ~~or 2~~ characterized in that an amount of supported platinum is between 0.1 % by weight and 10.0 % by weight based on a weight of the metal oxide carrier.

4. The catalyst for the water gas shift reaction according to ^{claim 1} ~~any one of claims 1 to 3~~ characterized in that rhenium in addition to platinum is further supported on the metal oxide carrier.

5. The catalyst for the water gas shift reaction according to claim 4 characterized in that an amount of supported rhenium is between 0.1 % by weight and 10.0 % by weight based on a weight of the metal oxide carrier.

6. The catalyst for the water gas shift reaction according to ^{claim 1} ~~any one of claims 1 to 5~~ characterized in that at least on metal selected from the group consisting of

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which catalyst at least platinum is supported on a metal oxide carrier so as to remove carbon monoxide from the hydrogen gas, which is supplied to a fuel cell.

- 5 12. The fuel cell generation system according to claim 11 wherein the catalyst for the water gas shift reaction according to any one of claims 1 to 8 is used.

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